

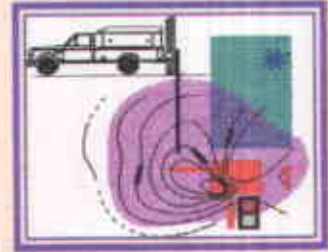
**Franklin J. Goldman**

**Environmental and Hydrogeological Consulting**

**PO box 2217, Guerneville, CA 95446**

**Phone: (707) 869-0850**

**FranksDialup@earthlink.net**



August 05, 2002

Barney M. Chan  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-9335

*Ro 382*  
AUG 07 2002 Telephone: (510) 567-6765  
FAX: (510) 337-9335

**Subject: Groundwater Monitoring of Hydrocarbons related to the Former Underground Storage Tanks at the FORMER BILL CHUN SERVICE STATION @ 2301 SANTA CLARA AVENUE, ALAMEDA, CA 94501**

Dear Barney:

This report summarizes the groundwater level measurements and laboratory results of analyses performed for gasoline constituents in groundwater obtained from eleven (11) groundwater monitoring wells.

Concentrations of TPHg and benzene identified in groundwater have decreased significantly in most of the wells in comparison to the September 2000 groundwater monitoring event. A small anomalous hit of MTBE at 19 ppb was identified in one well.

No free product was identified, however, a noticeable hydrocarbon sheen was identified in groundwater monitoring well MW-2.

If you have any questions, please call me.

Sincerely,

Franklin J. Goldman  
Registered Geologist No. 5557  
Certified Hydrogeologist No. 466



## GROUNDWATER FLOW DIRECTION

Groundwater was encountered at depths of approximately 6 to 8 feet bgs in the vicinity of the former tank pit during an intermediate water table elevation period. The predominant groundwater gradient direction is to the southeast at 0.016 feet/foot (See Figure 1 for Gradient Map) and (Table 1 for Depth to Water Table Measurements). Water levels were measured with an electronic water level sounder prior to sampling. A Slope Indicator water level meter was used to measure the depth to groundwater prior to purging and sampling. The measurements were read to the nearest 100th of an inch. The groundwater gradient was determined by comparing water levels with elevations provided by a certified land survey.

## WELL PURGING AND DEVELOPMENT

Depth to groundwater was measured prior to purging to use as a reference elevation. The wells were initially surged and purged with a down hole pump on July 03, 2002 to remove fines which had accumulated since the last groundwater monitoring event. Wells were generally not too turbid a cleared up rather quickly. After all of the wells were purged with a pump, they were checked to verify that the water table elevations had returned to 100 % of their initial water levels. Purging of the wells was then performed by the use of a 1 3/4 inch diameter steel check valve bailer for 2 inch diameter wells. Each well was sampled after well development which entailed the removal of approximately three (3) or more borehole volumes from each well, allowing the water level to recover to at least 80% of the original, static water level. Temperature, electrical conductivity, and pH was monitored during the bailing process, so that the three parameters demonstrated an error difference of within 10% from one another, over three consecutive readings. The recorded data was used to verify that a sufficient volume of groundwater had been removed from the each well casing so that anomalies caused by remnant well casing storage would not preclude us from obtaining a groundwater sample which would be more representative of the aquifer contaminant distribution as a whole.

## GROUNDWATER SAMPLING FROM WELLS

Water samples were collected by lowering a plastic disposable bailer down the center of the well casing. Water samples were contained in 40-milliliter VOA vials for TPH-g, MTBE, and BTEX analyses. EPA Method 8260b for 5 oxygenates and two lead scavengers was used to confirm the presence of MTBE on other gasoline constituents. The samples were labeled and stored on ice until delivered, under chain-of-custody procedures, to McCampbell Analytical, Inc. of Pacheco, California, a State-certified analytical laboratory.

## LABORATORY RESULTS OF HYDROCARBONS IN GROUNDWATER

TPHg and BTEX concentrations indicate decreases in all wells except for TPHg in MW-3 (See Attached Laboratory Data Sheets) and (Table 2 for Lab Results).

The plumes of benzene and TPHg in groundwater still appear to be centered in the general vicinity of the site (See Figures 2 and 3 for TPHg and benzene concentration maps). The distribution of hydrocarbon sheen has also decreased as it is now only seen in MW-2.

## FIELD CLEANUP

Well purge water was placed in properly labeled 55 gallon drums left on-site pending laboratory analysis to determine a legal point of disposal.

## CONCLUSIONS

Dissolved benzene may still be migrating to the east, however, considering, the dramatic decreases in concentrations since the last groundwater monitoring event, the plume may be degrading at a greater rate than its migration to the east.

## RECOMMENDATIONS

Perform an additional round of quarterly sampling.

## LIMITATIONS

This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analyses, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. Franklin J. Goldman, recognizes that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein, is done so at the sole risk of the said user.

**TABLE 1**  
**Depth to Groundwater Measurements**  
**July 03, 2002**

Well No	Depth to Groundwater from TOC (feet bgs)	TOC Elevation (feet)	Water Table Elevation (feet)
MW-1	8.25	28.49	20.24
MW-2	7.98	28.47	20.49
MW-3	8.78	28.78	20.00
MW-4	8.16	28.53	20.37
MW-5	7.90	28.33	20.43
MW-6	7.83	28.36	20.53
MW-7	8.56	28.44	19.88
MW-8	8.50	28.17	19.67
MW-9	6.32	27.45	21.13
MW-10	6.15	27.32	21.17
MW-11	8.27	28.56	20.29

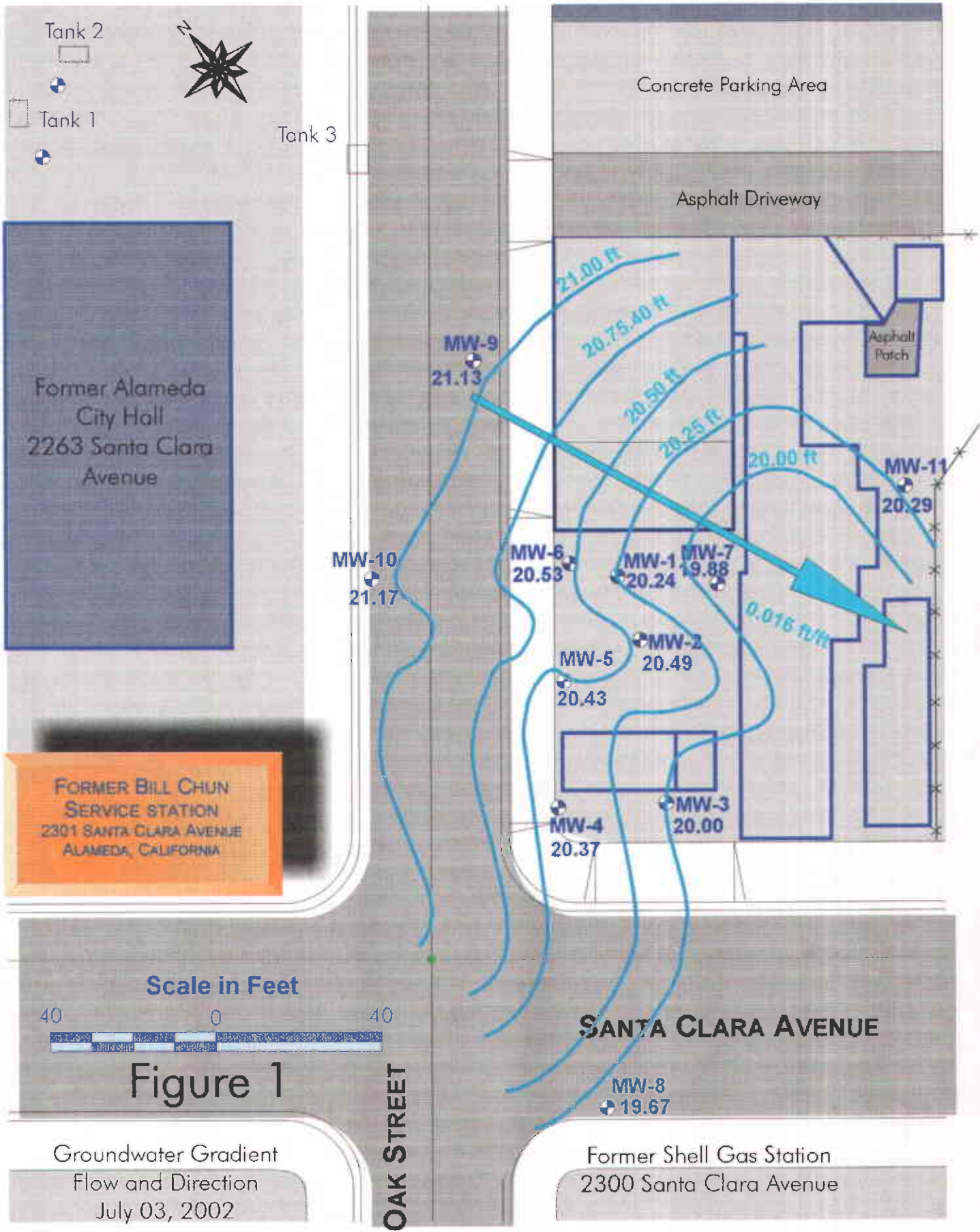
**TABLE 2**

**Analytical Results for Gasoline Indicator Chemicals  
in Groundwater (ppb)**

Well No	TPHg	1, 2 DCA	Benzene
<b>MW-1 (07-04-02)</b>	<b>43,000 DECREASE</b>	<b>ND</b>	<b>7,200 DECREASE</b>
<i>MW-1 (09-17-00)</i>	<i>65,000</i>		<i>15,000</i>
<b>MW-2 (07-04-02)</b>	<b>210,000 DECREASE</b>	<b>ND</b>	<b>7,900 DECREASE</b>
<i>MW-2 (09-17-00)</i>	<i>560,000</i>		<i>10,000</i>
<b>MW-3 (07-04-02)</b>	<b>10,000 INCREASE</b>	<b>110</b>	<b>2,300 DECREASE</b>
<i>MW-3 (09-17-00)</i>	<i>9,300</i>		<i>3,000</i>
<b>MW-4 (07-04-02)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<i>MW-4 (09-17-00)</i>	<i>ND</i>		<i>ND</i>
<b>MW-5 (07-04-02)</b>	<b>16,000 DECREASE</b>	<b>ND</b>	<b>89 DECREASE</b>
<i>MW-5 (09-17-00)</i>	<i>44,000</i>		<i>490</i>
<b>MW-6 (07-04-02)</b>	<b>3,900 DECREASE</b>	<b>ND</b>	<b>29 DECREASE</b>
<i>MW-6 (09-17-00)</i>	<i>10,000</i>		<i>110</i>
<b>* MW-7 (07-04-02)</b>	<b>41,000 DECREASE</b>	<b>45</b>	<b>5,600 DECREASE</b>
<i>MW-7 (09-17-00)</i>	<i>140,000</i>		<i>21,000</i>
<b>MW-8 (07-03-02)</b>	<b>ND</b>	<b>ND</b>	<b>1.1 DECREASE</b>
<i>MW-8 (09-17-00)</i>	<i>ND</i>		<i>1.4</i>
<b>MW-9 (07-03-02)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<i>MW-9 (09-17-00)</i>	<i>ND</i>		<i>ND</i>
<b>MW-10 (07-03-02)</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<i>MW-10 (09-17-00)</i>	<i>ND</i>		<i>ND</i>
<b>MW-11 (07-04-02)</b>	<b>140,000 DECREASE</b>	<b>ND</b>	<b>15,000 DECREASE</b>
<i>MW-11 (09-17-00)</i>	<i>220,000</i>		<i>32,000</i>

\* MTBE 19ppb





Tank 2

Tank 1

Tank 3

Former Alameda  
City Hall  
2263 Santa Clara  
Avenue

FORMER BILL CHUN  
SERVICE STATION  
2301 SANTA CLARA AVENUE  
ALAMEDA, CALIFORNIA

Concrete Parking Area

Asphalt Driveway

Asphalt  
Patch

Scale in Feet

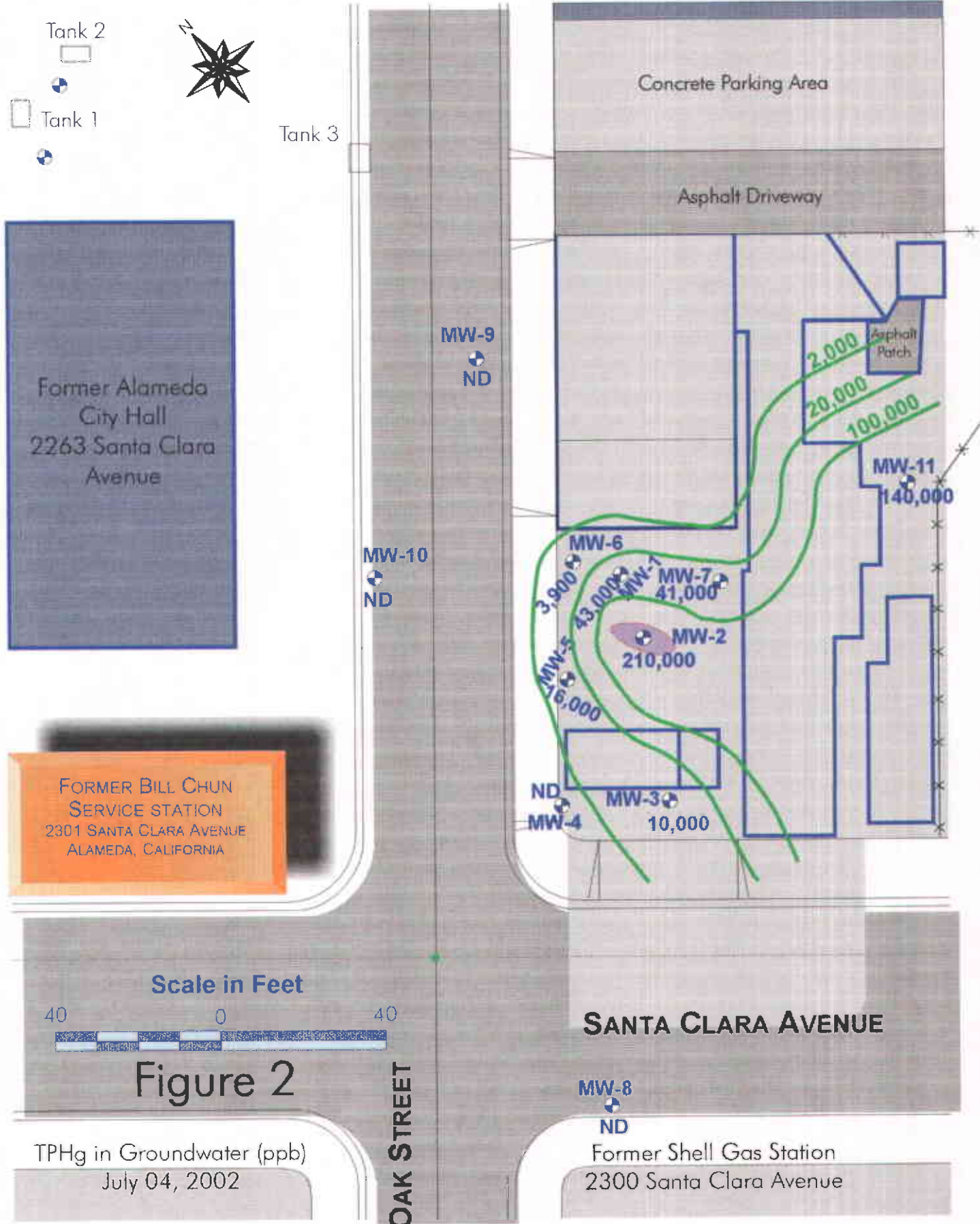


**Figure 1**

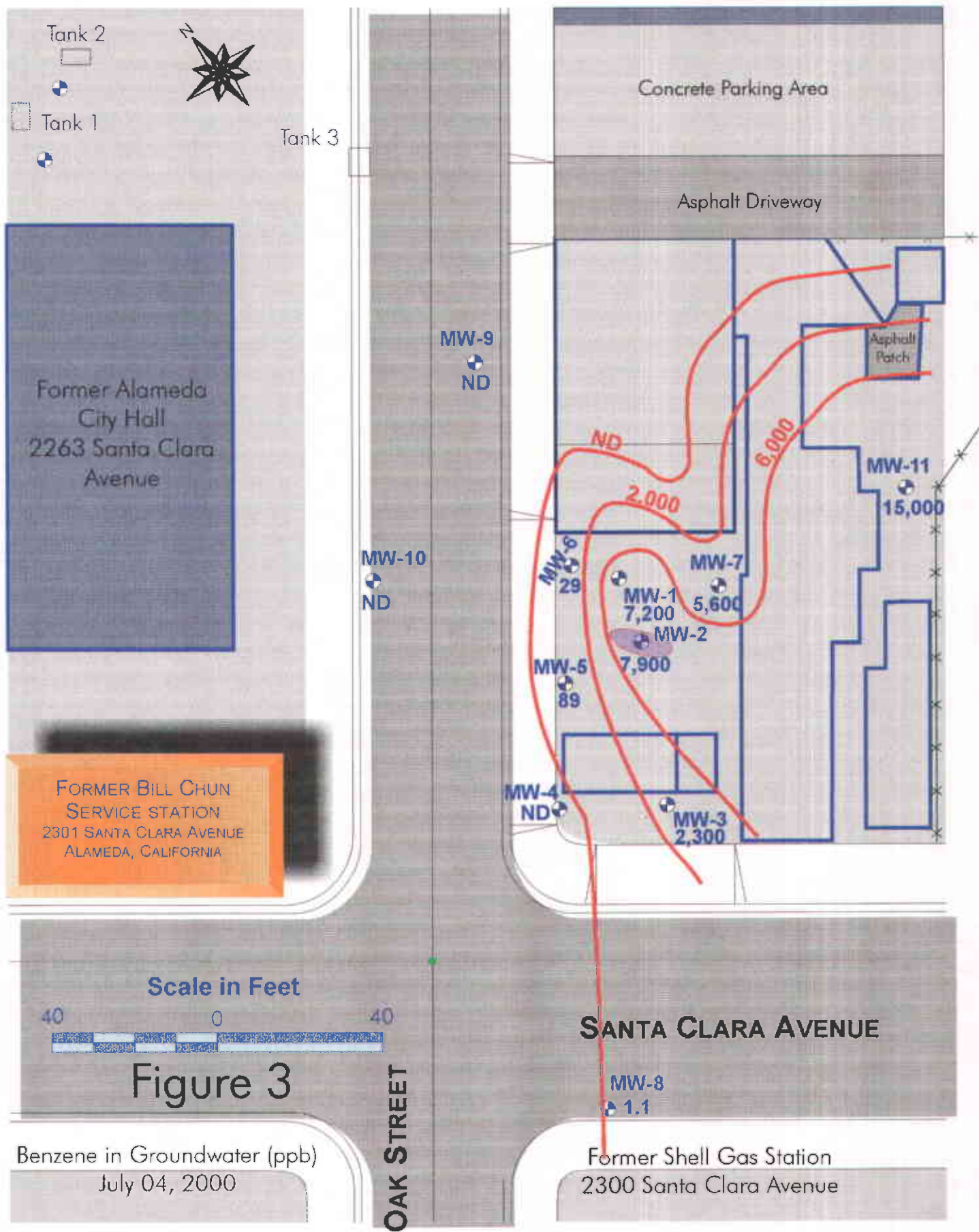
OAK STREET

SANTA CLARA AVENUE

Former Shell Gas Station  
2300 Santa Clara Avenue









Franklin J. Goldman  P.O. Box 9390  Santa Rosa, California 95405	Client Project ID: Chun, 2301 Santa Clara Alameda	Date Sampled: 07/03/02
	Client Contact: Frank Goldman	Date Received: 07/09/02
	Client P.O.:	Date Reported: 07/19/02
	Date Completed: 07/19/02	

July 19, 2002

Dear Frank:

Enclosed are:

- 1). the results of 11 samples from your **Chun, 2301 Santa Clara Alameda project,**
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Angela Rydelius, Lab Manager



Franklin J. Goldman  P.O. Box 9390  Santa Rosa, California 95405	Client Project ID: Chun, 2301 Santa Clara Alameda	Date Sampled: 07/03/02
	Client Contact: Frank Goldman	Date Received: 07/09/02
	Client P.O.:	Date Extracted: 07/15/02-07/16/02
		Date Analyzed: 07/15/02-07/16/02

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0207179

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-10	W	ND	ND	ND	ND	ND	ND	1	106
002A	MW-9	W	ND	ND	ND	ND	ND	ND	1	97.1
003A	MW-8	W	ND	ND	1.1	ND	ND	ND	1	102
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	101
005A	MW-6	W	3900,a	ND<50	29	84	180	650	10	98.6
006A	MW-5	W	16,000,a	ND<250	89	700	850	3700	50	98.9
007A	MW-3	W	10,000,a	ND<120	2300	42	51	250	25	119
008A	MW-2	W	210,000,a,h	ND<1000	7900	23,000	4600	31,000	200	116
009A	MW-1	W	43,000,a	ND<500	7200	6700	1700	6800	100	99.5
010A	MW-7	W	41,000,a	ND<500	5600	7800	1600	6700	100	100
011A	MW-11	W	140,000,a	ND<1000	15,000	42,000	3600	20,000	200	100

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

\*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Franklin J. Goldman P.O. Box 9390 Santa Rosa, California 95405	Client Project ID: Chun, 2301 Santa Clara Alameda	Date Sampled: 07/03/02
	Client Contact: Frank Goldman	Date Received: 07/09/02
	Client P.O.:	Date Extracted: 07/15/02-07/16/02
		Date Analyzed: 07/15/02-07/16/02

**Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207179

Lab ID	0207179-001B	0207179-002B	0207179-003B	0207179-004B	Reporting Limit for DF=1	
Client ID	MW-10	MW-9	MW-8	MW-4		
Matrix	W	W	W	W		
DF	1	1	1	1		

Compound	Concentration				ug/kg	µg/L
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5

**Surrogate Recoveries (%)**

%SS:	103	91.6	99.9	90.7	
------	-----	------	------	------	--

Comments

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



**McC Campbell Analytical Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Franklin J. Goldman  P.O. Box 9390  Santa Rosa, California 95405	Client Project ID: Chun, 2301 Santa Clara Alameda	Date Sampled: 07/03/02
	Client Contact: Frank Goldman	Date Received: 07/09/02
	Client P.O.:	Date Extracted: 07/15/02-07/16/02
		Date Analyzed: 07/15/02-07/16/02

**Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207179

Lab ID	0207179-005B	0207179-006B	0207179-007B	0207179-008B	Reporting Limit for DF = 1	
Client ID	MW-6	MW-5	MW-3	MW-2		
Matrix	W	W	W	W		
DF	5	25	20	200		

Compound	Concentration				ug/kg	ug/L
	Diisopropyl ether (DIPE)	ND<2.5	ND<12	ND<10	ND<100	NA
Ethyl tert-butyl ether (ETBE)	ND<2.5	ND<12	ND<10	ND<100	NA	0.5
Methyl-t-butyl ether (MTBE)	ND<2.5	ND<12	ND<10	ND<100	NA	0.5
tert-Amyl methyl ether (TAME)	ND<2.5	ND<12	ND<10	ND<100	NA	0.5
t-Butyl alcohol (TBA)	ND<25	ND<120	ND<100	ND<1000	NA	5.0
1,2-Dibromoethane (EDB)	ND<2.5	ND<12	ND<10	ND<100	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	ND<12	110	ND<100	NA	0.5

**Surrogate Recoveries (%)**

%SS:	98.6	93.2	94.2	98.5	
Comments	j	j	j	j h	

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.





McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Franklin J. Goldman  P.O. Box 9390  Santa Rosa, California 95405	Client Project ID: Chun, 2301 Santa Clara Alameda	Date Sampled: 07/03/02
	Client Contact: Frank Goldman	Date Received: 07/09/02
	Client P.O.:	Date Extracted: 07/15/02-07/16/02
		Date Analyzed: 07/15/02-07/16/02

**Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207179

Lab ID	0207179-009B	0207179-010B	0207179-011B		Reporting Limit for DF =1
Client ID	MW-1	MW-7	MW-11		
Matrix	W	W	W		
DF	100	33	200		

Compound	Concentration			ug/kg	µg/L
Diisopropyl ether (DIPE)	ND<50	ND<17	ND<100	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	ND<17	ND<100	NA	0.5
Methyl-t-butyl ether (MTBE)	ND<50	19	ND<100	NA	0.5
tert-Amyl methyl ether (TAME)	ND<50	ND<17	ND<100	NA	0.5
t-Butyl alcohol (TBA)	ND<500	ND<170	ND<1000	NA	5.0
1,2-Dibromoethane (EDB)	ND<50	ND<17	ND<100	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	45	ND<100	NA	0.5

**Surrogate Recoveries (%)**

%SS:	89.7	96.0	79.5	
Comments	j	j	j	

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

Matrix: W

WorkOrder: 0207179

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 2934			Spiked Sample ID: 0207179-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	60	94.6	103	8.32	97.7	97.7	0.0320	80	120
MTBE	ND	10	97.5	93.9	3.73	110	96.3	13.0	80	120
Benzene	ND	10	107	109	1.67	114	106	6.74	80	120
Toluene	ND	10	109	111	2.11	114	113	1.08	80	120
Ethylbenzene	ND	10	110	111	1.37	114	109	4.40	80	120
Xylenes	ND	30	110	113	2.99	113	110	2.99	80	120
%SS:	106	100	103	106	3.10	107	108	1.17	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



**QC SUMMARY REPORT FOR SW8260B**

Matrix: W

WorkOrder: 0207179

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 2935			Spiked Sample ID: 0207179-002B			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	116	105	9.76	123	124	0.482	70	130
Methyl-t-butyl ether (MTBE)	ND	10	103	86.2	17.3	108	112	2.98	70	130
Diisopropyl ether (DIPE)	ND	10	114	108	5.21	119	118	1.06	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	113	103	9.55	118	118	0.0162	70	130
%SSI:	91.6	100	103	89.5	13.6	101	102	1.05	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

0207179


**Franklin J. Goldman**  
 PO BOX 9390, Santa Rosa, CA 95405 (by US mail)  
 643 Oregon Street, Sonoma CA 95476 [Sample Pickup @ Side Porch on Wood Deck]  
 Phone: (707) 869-0850 FranksDialup@Earthlink.net  
 Phone: (707) 869-0869 [Call before Faxing]

# CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. \_\_\_\_\_  
 Laboratory Please Call Accounts Payable for P.O. No. \_\_\_\_\_

Date: 7/4/02 Sheet 1 of 2

Project Name Chun  
 Project Number \_\_\_\_\_  
 Address 2301 SANTA CLARA  
ALAMEDA, CA 94501

Sampler's Name:  
Frank Goldman  
 Sampler's Signature:  


Parameters												
TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE


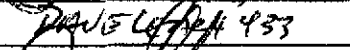
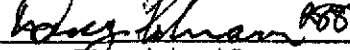
Laboratory Delivery Location  
 McCampbell Analytical, Inc.  
 110 2nd Ave. South, #D7  
 Pacheco, CA 94553  
 Phone: (925) 798-1620  
 FAX: (925) 798-1622


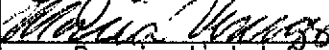
Phone Turnaround Time  
 Rush  24 Hour  48 Hour  5-Day  
 Repeat to: Frank  
 Comments

Sample Number	Location	Date	Time
+ MW-10		7/3/02	2:30 PM
+ MW-9		7/3/02	4:05 PM
+ MW-8		7/3/02	5:20 PM
+ MW-4		7/4/02	10:05 AM
+ MW-6			11:00 PM
+ MW-5			11:50 PM
+ MW-3			12:40 PM
+ MW-2			1:25 PM
+ MW-1			2:30 PM
+ MW-7			3:35 PM

		X								X		

Do Not Run until you receive a check from Wayne Chun  
 call me at 707 869-0850

Relinquished By  
 07/09/02 8:55  
 07/09/02 9:30  
 07/09 16:50  
 Dispatched By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received By  
 DAVE LOPEZ 833 07/09/02 8:55  
 07/09 10:50  
 7/9/02  
 Received in Lab By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Total Number of Containers this Sheet: 13  
 Method of Shipment: PREPAGATION  
 Special Shipment/Handling or Storage Requirements:  
**Keep on Ice**

Samples of Hold 7/15/02



Franklin J. Goldman  
 PO BOX 9390, Santa Rosa, CA 95406 (by US mail)  
**643 Oregon Street, Sonoma CA 95476 [Sample Pickup @ Side Porch on Wood Deck]**  
 Phone: (707) 869-0850 FranksDialup@Earthlink.net  
 Phone: (707) 869-0869 [Call before Faxing]

# CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No.  
 Laboratory Please Call Accounts Payable for P.O. No.

Date: 7/04/02 Sheet 2 of 2

Laboratory Delivery Location:  
 McCampbell Analytical, Inc.  
 110 2nd Ave. South, #D7  
 Pacheco, CA 94553  
 Phone: (925) 798-1620  
 FAX: (925) 798-1622

Phone Turnaround Time  
 Rush  24 Hour  48 Hour  5-Day  
 Repeat to: **Frank**

Comments  
 Do Not Run until you receive a check from Wayne Chun  
  
 call me @ 707 869-0850

Project Name				Parameters													
Project Number				TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volatile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE
Address																	
Sampler's Name:																	
Sampler's Signature:																	
Sample Number	Location	Date	Time														
+ MW-11		7/4/02	4:45 PM			X									X		

Relinquished By	Date	Time	Received By	Date	Time
<i>Franklin J. Goldman</i>	07/09/02	8:55	<i>Dore Lopez 433</i>	07/09/02	8:55
<i>Dore Lopez 433</i>	07/09/02	9:30	<i>Wayne Chun 808</i>	07/09	10:55
<i>Wayne Chun 808</i>	07/09	16:50	<i>Marcia...</i>		
Dispatched By	Date	Time	Received in Lab By	Date	Time

Total Number of Containers this Sheet:  
 Method of Shipment:  
 Special Shipment/Handling or Storage Requirements:  
**Keep on Ice**

**McC Campbell Analytical Inc.**

110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0207179

Client:

Franklin J. Goldman  
 P.O. Box 9390  
 Santa Rosa, California 95405

TEL: (707) 284-3826  
 FAX: (707) 284-3826  
 ProjectNo: Chun, 2301 Sant  
 PO:

15-Jul-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests			
					8021B/8015	SW8260B		
0207179-001	MW-10	Water	7/3/02 2:50:00 PM		A	B		
0207179-002	MW-9	Water	7/3/02 4:05:00 PM		A	B		
0207179-003	MW-8	Water	7/3/02 5:20:00 PM		A	B		
0207179-004	MW-4	Water	7/4/02 10:05:00 AM		A	B		
0207179-005	MW-6	Water	7/4/02 11:00:00 AM		A	B		
0207179-006	MW-5	Water	7/4/02 11:50:00 AM		A	B		
0207179-007	MW-3	Water	7/4/02 12:40:00 PM		A	B		
0207179-008	MW-2	Water	7/4/02 1:25:00 PM		A	B		
0207179-009	MW-1	Water	7/4/02 2:30:00 PM		A	B		
0207179-010	MW-7	Water	7/4/02 3:35:00 PM		A	B		
0207179-011	MW-11	Water	7/4/02 4:45:00 PM		A	B		

Comments: Samples Still on hold logging in for invoice only

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

DATE: 07-26-02

ATTN: Wayne Chun

FROM: Melissa Valles

Number of pages faxed including this one: 10

**CAUTION: CONFIDENTIAL!**

THE DOCUMENT BEING TELECOPIED TO YOU MAY CONTAIN INFORMATION PROTECTED BY THE SENDER AND/OR CLIENT. It is intended only for the use of the person to whom it is addressed. If you are not the intended recipient or an authorized representative, then this is notice to you that dissemination, distribution or copying of this document is prohibited. If this was received in error, please call us at once and destroy the document.